IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An image processing apparatus for performing image processing on captured data of an image of a desired subject, comprising:

an image processing part; and

a storage unit provided outside said image processing part and connected to said image processing part by a bus, said image processing part including:

a buffer memory for data storage;

an image processing unit for performing a predetermined process on said captured data to obtain image data, and writing said image data to said buffer memory; and

a compression unit for compressing said image data read from said buffer memory and outputting compressed image data to said storage unit, wherein an input of said buffer memory is not connected to said bus, the input of said buffer memory is connected, separate from said bus, only to said image processing unit to receive only said image data from said image processing unit, and [[an]] the output of said buffer memory is connected, separate from said bus, only to said compression unit to output said image data only to said compression unit,

wherein said compression unit is connected to said bus and outputs said compressed image data directly to said storage unit via said bus.

Claim 2 (Original): The image processing apparatus according to claim 1, wherein said buffer memory includes a first buffer memory and a second buffer memory,

said image processing apparatus further comprising:

a control unit being operative in such a manner that while said image processing unit writes said image data either to said first buffer memory or to said second buffer memory, said compression unit selectively reads image data previously stored either in said first buffer memory or in said second buffer memory experiencing no writing of said image data by said image processing unit.

Claim 3 (Withdrawn): The image processing apparatus according to claim 1, wherein said buffer memory includes two buffer memories, said image processing apparatus further comprising:

a control unit for reading and writing said image data using said two buffer memories as one continuous buffer memory,

wherein after said image data in predetermined amount is written to said continuous buffer memory, said image processing unit suspends writing until receipt of a control signal, and

wherein after said image data is read from said continuous buffer memory, said compression unit sends said control signal to said image processing unit.

Claim 4 (Withdrawn): The image processing apparatus according to claim 1, further comprising:

an image display processing unit for converting said image data into data for image display, said image data being written to said buffer memory by said image processing unit, whereby said data for image display is reproduced on a display device.

Claim 5 (Withdrawn): The image processing apparatus according to claim 4,

wherein said buffer memory includes a first buffer memory and a second buffer

memory,

said image processing apparatus further comprising:

a control unit being operative in such a manner that while said image processing unit

writes said image data either to said first buffer memory or to said second buffer memory,

said image display processing unit selectively reads image data previously stored either in

said first buffer memory or in said second buffer memory experiencing no writing of said

image data by said image processing unit.

Claim 6 (Withdrawn): The image processing apparatus according to claim 4,

wherein said buffer memory includes two buffer memories,

said image processing apparatus further comprising:

a control unit for reading and writing said image data using said two buffer memories

as one continuous buffer memory,

wherein after said image data in predetermined amount is written to said continuous

buffer memory, said image processing unit suspends writing until receipt of a control signal,

and

wherein after said image data is read from said continuous buffer memory, said image

display processing unit sends said control signal to said image processing unit.

Claim 7 (Withdrawn): The image processing apparatus according to claim 4,

wherein said buffer memory includes a first buffer memory and a second buffer

memory, and

wherein said image processing unit includes:

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an output unit for performing a predetermined process on said captured data, and outputting the processed captured data as data for image display,

said image processing apparatus further comprising:

a control unit being operative in such a manner that while said image processing unit writes said data for image display either to said first buffer memory or to said second buffer memory, said image display processing unit selectively reads data for image display previously stored either in said first buffer memory or in said second buffer memory experiencing no writing of said image data by said image processing unit.

Claim 8 (Withdrawn): The image processing apparatus according to claim 4, wherein said buffer memory includes two buffer memories, and

wherein said image processing unit includes an output unit for performing a predetermined process on said captured data, and outputting the processed captured data as data for image display,

said image processing apparatus further comprising:

a control unit for reading and writing said image data using said two buffer memories as one continuous buffer memory,

wherein after said data for image display in predetermined amount is written to said continuous buffer memory, said image processing unit suspends writing until receipt of a control signal, and

wherein after said data for image display is read from said continuous buffer memory, said image display processing unit sends said control signal to said image processing unit.

Claim 9 (Withdrawn): The image processing apparatus according to claim 1, further comprising:

an image display processing unit for converting said image data into data for image display, said image data being written to said buffer memory by said image processing unit, whereby said data for image display is reproduced on an electronic viewfinder.

Claims 10-12 (Canceled).

Claim 13 (Previously Presented): The image processing apparatus according to claim 1, comprising:

a first switching unit connected between said image processing unit and said buffer memory; and

a second switching unit connected between said compression unit and said buffer memory.

Claim 14 (Previously Presented): The image processing apparatus according to claim 13, wherein said buffer memory comprises first and second buffer memories connected in parallel.

Claim 15 (Currently Amended): An image processing apparatus for performing image processing on captured data of an image of a desired subject, comprising:

an image processing part; and

a storage unit provided outside said image processing part and connected to said image processing part by a bus,

said image processing part including:

first and second buffer memories connected in parallel for data storage;

an image processing unit for performing a predetermined process on said

captured data to obtain image data, and alternatingly writing said image data to said

first and second buffer memories; and

a compression unit for compressing said image data alternatingly read from

said first and second buffer memories,

wherein inputs of said first and second buffer memories are not connected, separate

from to said bus, the inputs of said first and second buffers memories are connected only to

said image processing unit to receive only said image data from said image processing unit,

and the outputs of said first and second buffer memories are connected, separate from said

bus only to said compression unit, to output said image data only to said compression unit,

and said compression unit is connected to said bus and outputs compressed image data

directly to said storage unit via said bus.

Claim 16 (Previously Presented): The image processing apparatus according to claim

15, comprising:

a first switching unit connected between said image processing unit and said first and

second buffer memories; and

a second switching unit connected between said compression unit and said first and

second buffer memories.

Claims 17-19 (Canceled).

Claim 20 (Previously Presented): The image processing apparatus according to claim

15, comprising:

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said image processing part being connected to store data in and retrieve data from said

storage unit.

Claim 21 (Previously Presented): The image processing apparatus according to claim

15, wherein said image processing part comprises:

a first processing unit for performing a first processing on said captured data and for

storing first processed data in said storage unit; and

a second processing unit for performing a second processing on said first processed

data obtained from said storage unit and outputting second processed data to said buffer

memory.

Claim 22 (Previously Presented): The image processing apparatus according to claim

1, wherein said image processing part comprises:

a first processing unit for performing a first processing on said captured data and for

storing first processed data in said storage unit; and

a second processing unit for performing a second processing on said first processed

data obtained from said storage unit and outputting said image data to said buffer memory.

Claim 23 (Previously Presented): The image processing apparatus according to claim

1, comprising:

said image processing part connected to store data in and retrieve data from said

storage unit.

Claim 24 (Canceled).

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Claim 25 (Previously Presented): The image processing apparatus of claim 1, wherein said buffer memory comprises two line buffers each having a length not less than a length of image data processed by said image processing unit at a single time.

Claim 26 (Previously Presented): The image processing apparatus of claim 1, wherein:

said image processing unit comprises a line memory for storing said captured data; and

said buffer memory comprises two line buffers each having a length not less than a length of image data processed by said image processing unit at a single time and not more than a length of said line memory.

Claim 27 (Currently Amended): An image processing apparatus for performing image processing on captured data of an image of a desired subject, comprising:

an image processing part; and

a storage unit provided outside said image processing part and connected to said image processing part by a bus,

said image processing part including:

an image processing unit for performing a predetermined process on said captured data to obtain image data;

- a line memory integrated into said image processing unit;
- a compression unit for compressing said image data; and
- a buffer memory connected between said image processing unit and said compression unit; and

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a DMA controller controlling transfer of compressed image data between the compression unit and the storage unit,

wherein an input of said buffer memory is not connected, separate from to said bus, the input of said buffer memory is connected only to said image processing unit, to receive only said image data from said image processing unit, and [[an]] the output of said buffer memory is connected, separate from said bus only to said compression unit, to output said image data only to said compression unit, compressed image data is output directly from said compression unit via said bus to said storage unit, and said compression unit is connected to said bus.